

### A Baking Problem

You are making cookies. The recipe says to combine  $\frac{1}{2}$  cup butter with  $\frac{3}{4}$  cups chocolate chips and  $\frac{3}{8}$  cups butterscotch chips. Here are some questions.

1. When these ingredients are mixed together, how many cups of cookie dough will you have? Show your work. Explain your thinking.

$$\begin{array}{r}
 \frac{1}{2} \quad \frac{4}{8} \\
 \frac{3}{4} \quad \frac{6}{8} \\
 \frac{3}{8} \quad \frac{3}{8} \\
 \hline
 1\frac{13}{8}
 \end{array}$$

$1\frac{13}{8}$  cups

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$$\frac{1}{2} + \frac{3}{4} + \frac{3}{8} = \frac{13}{8} \quad 1\frac{5}{8}$$

you will have  $1\frac{5}{8}$  cups of cookie dough.

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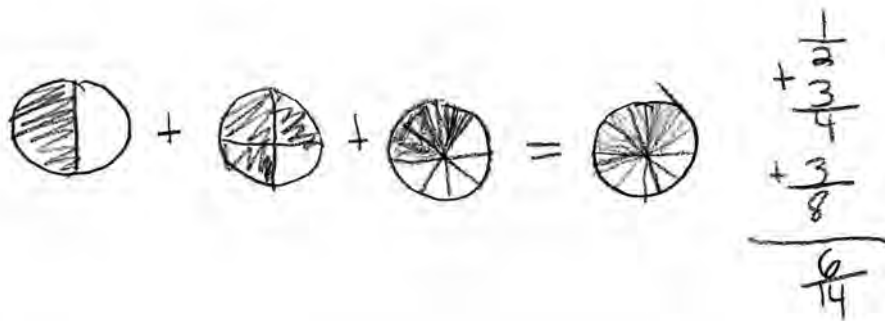
$\frac{3}{16}$  Why? Because as I was doing it I saw a pattern.  $\frac{3}{4}$ , and  $\frac{3}{8}$ . I knew that it have to be  $\frac{3}{16}$

$\frac{3}{4}, \frac{3}{8}, \frac{3}{16}$   
 adding in to 50 =  
 add 4 to 1 = 100.

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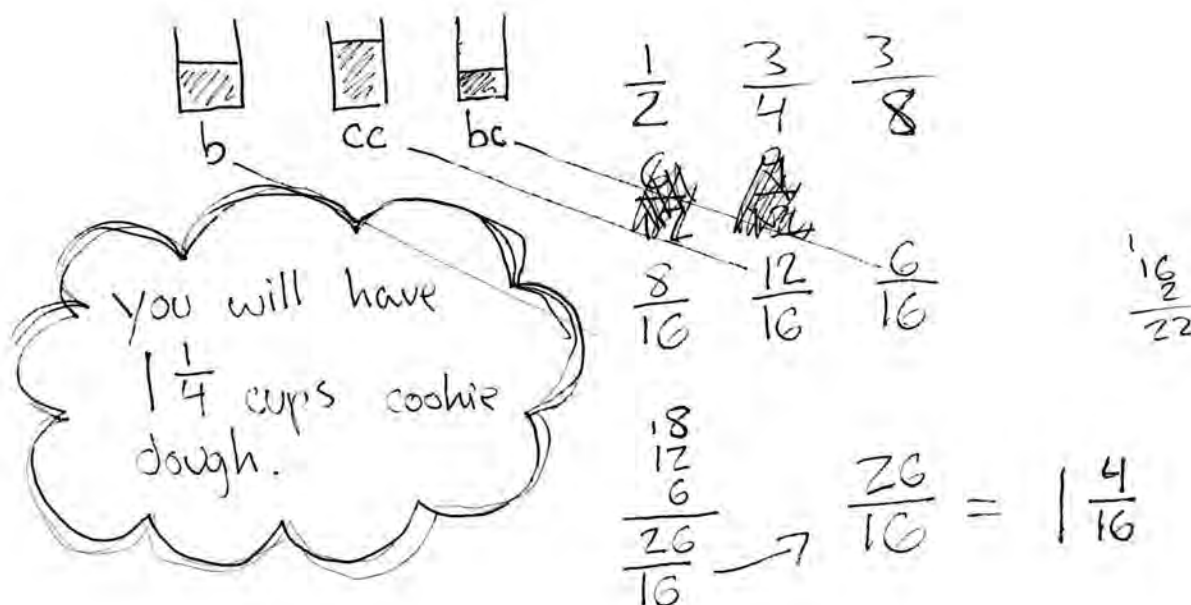
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$1 \frac{5}{8}$    I made a common denominator    $\frac{5}{8} \frac{3}{8} \frac{4}{8} = \frac{12}{8}$

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$$\frac{1}{2} + \frac{3}{4} + \frac{3}{8}$$

↓      ↓      ↓

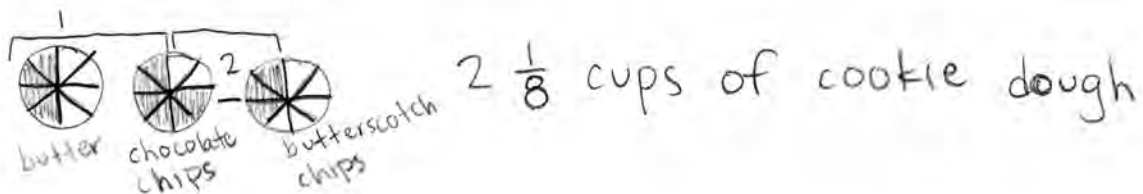
$$\frac{4}{8} + \frac{6}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8} \text{ cups of dough}$$

To add fractions you have to have a common denominator, so I converted each fraction and added them. I converted my answer to a mixed number.

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Reduce to eighths.